Docket No. 1594.1258

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Ser. No. 10/606,938

IN THE CLAIMS:

The text of all pending claims, (including withdrawn claims) is set forth below. Cancelled and not entered claims are indicated with claim number and status only. The claims as listed below show added text with <u>underlining</u> and deleted text with <u>strikethrough</u>. The status of each claim is indicated with one of (original), (currently amended), (cancelled), (withdrawn), (new), (previously presented), or (not entered).

Please AMEND claims 1 and 25, and CANCEL claim 10 without prejudice or disclaimer in accordance with the following:

1. (currently amended) A method of providing antibacterial activity to a non-fibrous surface of a filter body or a home appliance body using nano-sized metal particles, comprising:

coating a volatile photocatalytically active semiconductor-free-solution dispersed with nano-sized metal particles onto the non-fibrous-surface of the <u>filter body or home appliance</u> body;

drying the coated filter body or home appliance body; and

thermally treating the coated <u>filter body or home appliance</u> body wherein the nano-sized metal particles are deposited onto the <u>filter body or home appliance</u> body,

wherein the thermal treatment operation is performed at 50-150°C to prevent deformation of the <u>filter body or home appliance</u> body, and

wherein the metal particles are selected from the group consisting of silver (Ag), aluminum (Al), copper (Cu), iron (Fe), zinc (Zn), cadmium (Cd), palladium (Pd), rhodium (Rh) and chrome (Cr).

- 2. (cancelled)
- 3. (cancelled)
- 4. (previously presented) The method according to claim 1, wherein the thermal treatment operation is performed at 150°C to prevent deformation of the body.
- 5. (previously presented) The method according to claim 1, wherein the nano-sized metal particles used in the coating operation are used in an amount of 100-2000 ppm, based on the volatile solution.
- 6. (original) The method according to claim 5, wherein the nano-sized metal particles used in the coating operation are used in the amount of 1000 ppm, based on the volatile

- 7. (original) The method according to claim 5, wherein the nano-sized metal particles have a sterilizing function.
 - 8. (cancelled)
- 9. (original) The method according to claim 7, wherein the body is a home appliance selected from among refrigerators, washing machines and air conditioners.
 - 10. (cancelled)
 - 11. (cancelled)
 - 12. (cancelled)
 - 13. (cancelled)
 - 14. (cancelled)
 - 15. (cancelled)
 - 16. (cancelled)
 - 17. (cancelled)
 - 18. (cancelled)
- 19. (original) The method according to claim 1, wherein the nano-sized metal particles have an average particle size of 500 nm or smaller.
- 20. (original) The method according to claim 19, wherein the nano-sized metal particles have an average particle size of 300 nm or smaller.
- 21. (original) The method according to claim 19, wherein the nano-sized metal particles have an average particle size of 3-250 nm.

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- 22. (original) The method according to claim 1, wherein the coating of the volatile solution with nano-sized metal particles onto the surface of the body comprises deposition.
- 23. (previously presented) The method according to claim 22, wherein the deposition includes an ion-adsorption reduction method, in which only silver is selectively attached onto the body by use of electrolysis of silver solution.

24. (cancelled)

25. (currently amended) A method of providing antibacterial activity to a non-fibrous surface of a <u>copper/stainless</u> filter <u>body</u> using nano-sized metal particles, comprising:

coating, onto the non-fibrous-surface of the <u>copper/stainless</u> filter <u>body</u>, a volatile <u>photocatalytically active semiconductor-free-solution</u> dispersed with nano-sized metal particles selected from the group consisting of silver (Ag), aluminum (Al), copper (Cu), iron (Fe), zinc (Zn), cadmium (Cd), palladium (Pd), rhodium (Rh) and chrome (Cr); and

heating the filter at 50-150°C to obtain a deposit of nano-sized metal particles on the copper/stainless filter body.